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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,421	03/01/2004	John Gaughan	044499-0197	4963
22428	7590 11/08/2005		EXAMINER	
FOLEY AND LARDNER LLP			LEJA, RONALD W	
SUITE 500 3000 K STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2836	
			DATE MAILED: 11/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	$\overline{}$
	10/788,421	GAUGHAN, JOHN	(20)
Office Action Summary	Examiner	Art Unit	— W
	Ronald W. Leja	2836	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communicati D (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on <u>02 Secondary</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under Executive Executive Secondary 	action is non-final. nce except for formal matters, pro		is
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 01 March 2004 is/are: Applicant may not request that any objection to the	vn from consideration. r election requirement. r. a)⊠ accepted or b)⊡ objected to	•	
Replacement drawing sheet(s) including the correct			(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

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Claims 5 and 9 are objected to because of the following informalities: Claim 5 appears to positively claim the same diode found within Claim 1, from which it depends. There does not appear to be a "period" at the end of Claim 9. Appropriate correction is required.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 4, 8, 9, 11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Souri et al. (6,188,556) in view of Miller, Jr. (3,684,924).

Souri et al. disclose in Figure 3B a surge suppression circuit having a complementary Darlington pair with a resistor connected between the emitter of the first transistor (PNP) and the base of the second transistor (NPN), but does not appear to disclose the use of a diode. However, Miller, Jr. teaches the use of a diode (42) being connected to the input of the surge suppression circuit (62) and connected to one end of the resistor (76) (for Claim 11) (see Figure 1). It is the opinion of the Examiner that it would have been obvious to incorporate the teachings of the use of diode (42) as a means to offer protection against the transfer of energy due to inadvertent application of reverse or wrong polarity on the input, thereby increasing overall protection to the load.

Claims 2, 5-7, 10 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Souri et al. in view of Miller, Jr. as applied to claims 1, 8 and 9 above, and further in view of Johnson (4,576,135).

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These set of claims add the use of a zener diode being connected to the base of the second transistor and ground. Claim 7 adds the use of a capacitor. Johnson teaches a circuit (66) for offering protection against undesired voltage levels, wherein the circuit includes the use of a Darlington pair and a zener diode (78) being connected to the base of the second transistor and ground. It would have been obvious to incorporate the use of the zener diode as a means to help regulate any excess voltages being applied to the input, thereby once again further increasing the level of protection to a connected load, resulting in increased system reliability. The use of a capacitor would have been obvious as a means to adjust response times to a short-circuit condition, thereby helping to prevent nuisance trippings due to momentarily shorted load conditions, resulting in increased system reliability.

Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date

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of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald W. Leja whose telephone number is (571)272-2053. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald W Leja/ Primary Examiner Art Unit 2836

rwl November 6, 2005